NTSC. 8 ANALOG VIDEO OUT INPUT SIGNAL ENCODER DIGITAL 25 FORMATTER 8 COPYING MANAGEMENT INFORMATION SECTOR GENERATOR ¥ 32) SCRAMBLER 24 DIGITAL ĕ D SCRAMBLER Transmitting Method and Apparatus and 23 PROTECT SIGNAL GENERATOR 6 Signal Reproducing/Recording/ Signal Recording Medium APPENDING UNIT FOR DATA SECTOR HEADER MASTERING STEP APPENDING UNIT FOR TOC Inventor(s): Yoichiro Sako, et al DESCRAMBLER SECTOR RESOLVER MANAGEMENT INFORMATION DISCRIMINATOR COPYING S J 9 ENCODER MODULATOR CORRECTOR + DATA SECTOR HEADER READER TOC READER 6) 500 15) 8 → DEMODULATOR SERVO 盎 900Z O I VAM ည

09/610,783

Serial No.:

Serial No.: 09/610,783

Title:

Signal Reproducing/Recording/
Transmitting Method and Apparatus and
Signal Recording Medium

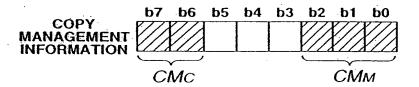


FIG.2

Serial No.: Title: 09/610,/83

Signal Reproducing/Recording/
Transmitting Method and Apparatus and
Signal Recording Medium

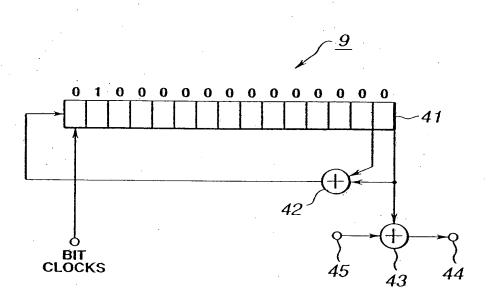


FIG.3

Serial No.: 09/610,783

Title: Signal Reproducing/Recording/

Transmitting Method and Apparatus and

Signal Recording Medium

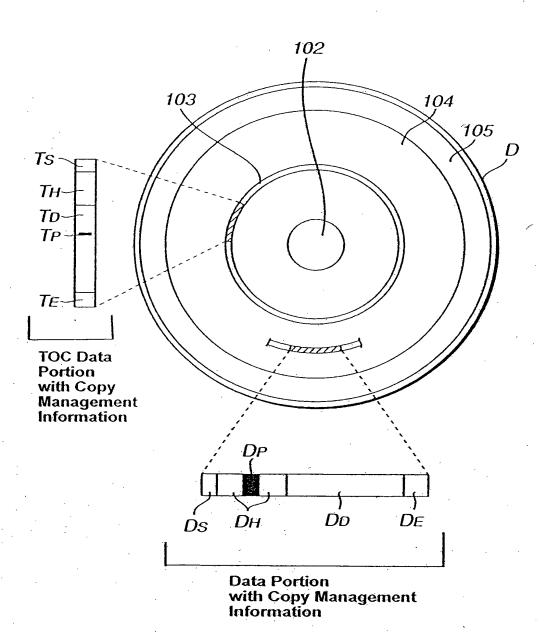
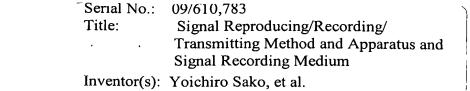


FIG.4



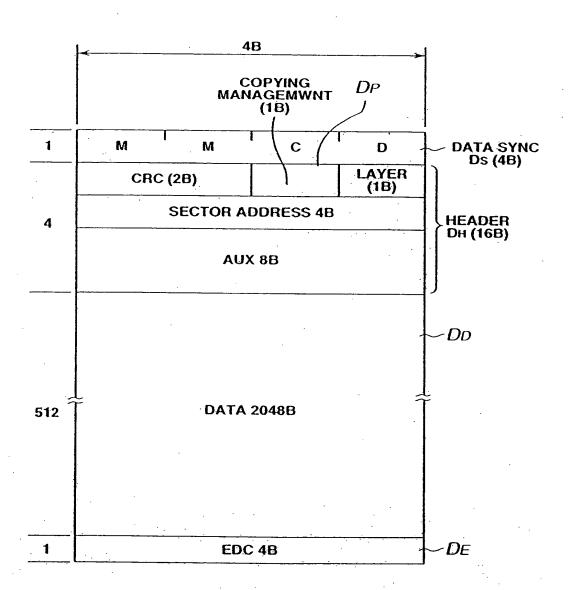
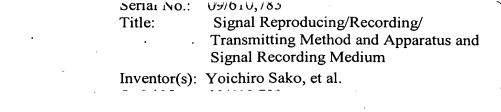


FIG.5



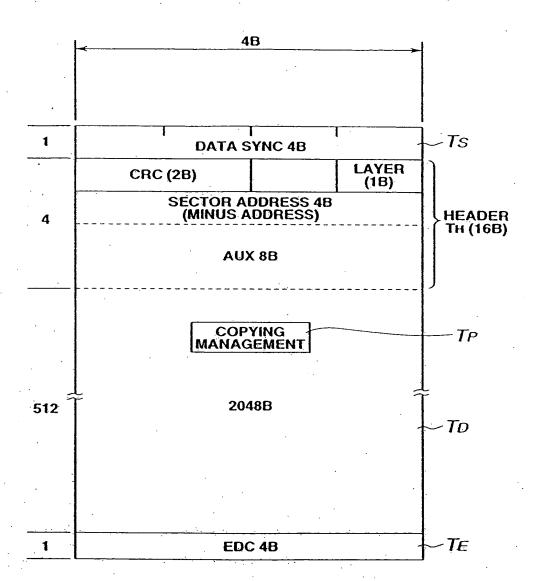
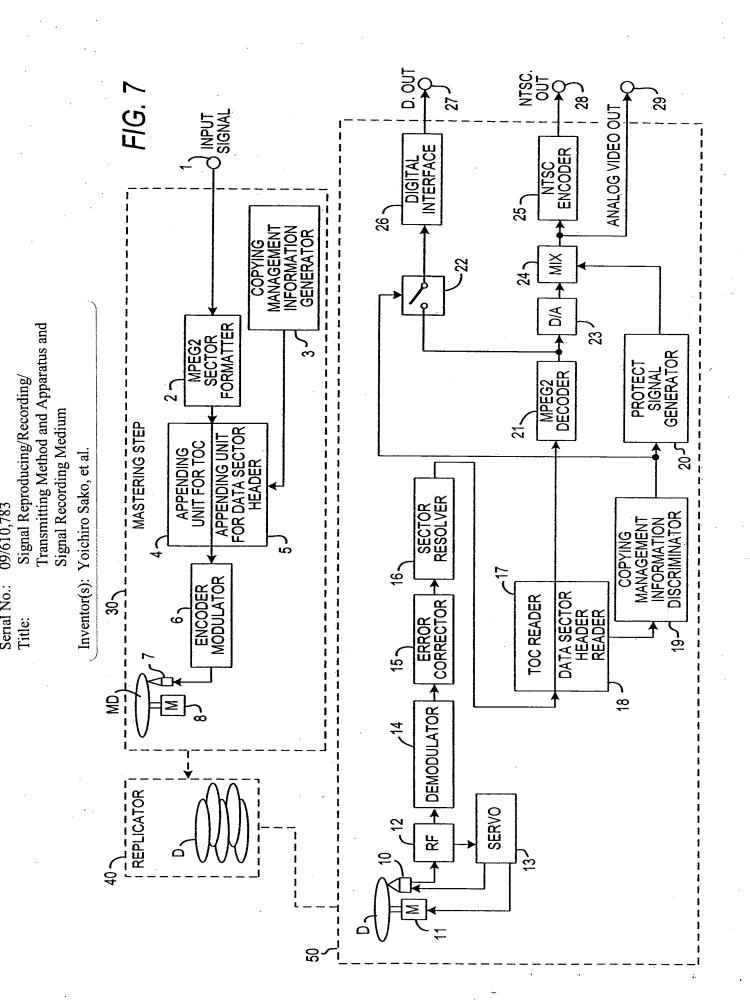


FIG.6



Serial No.: 09/610,783
Title: Signal Reproducing/Recording/
Transmitting Method and Apparatus and

Signal Recording Medium Inventor(s): Yoichiro Sako, et al.

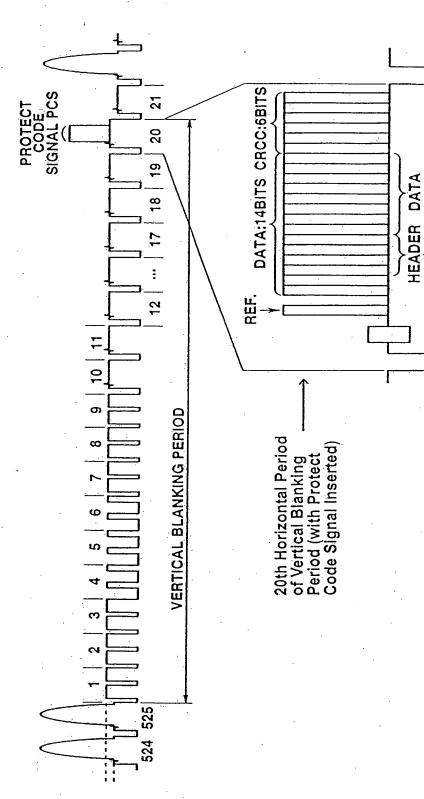


FIG.8

0000 b7b6b5b4b3b2b1b0

D. 04 A. OUT NTSC. ANOLOG VIDEO IN . 83 <u>~</u> NTSC ENCODER DIGITAL 8 82~ 25) 8 MPEG2 SECTOR FORMATTER PROTECT CODE SIGNAL DETECTOR ¥ SCRAMBLER 32, 247 DIGITAL 83, PROTECT CODE SIGNAL GENERATOR 8 O PROTECT SIGNAL GENERATOR g SCRAMBLER 8 MPEG2 DECODER 857 DATA SECTOR HEADER READER TOC READER DESCRAMBLER 8 DISCRIMINATOR (CMc) SECTOR RESOLVER COPYING MANAGEMENT INFORMATION P MODULATOR 5 88 16) DATA SECTOR HEADER READER CORRECTOR ENCODER TOC READER 8 0 89) 15) န 92 8 → DEMODULATOR 9 DIGITAL PLAYBACK CIRCUIT 7 ANOLOG VIDEO OUT SERVO D/A 몺 8

Transmitting Method and Apparatus and

Signal Recording Medium

Inventor(s): Yoichiro Sako, et al.

Signal Reproducing/Recording/

 $09/61\overline{0}, \overline{783}$

Serial No.:

Title:

Serial No.: 09/610,783

Title: Signal Reproducing/Recording/

Transmitting Method and Apparatus and
Signal Recording Medium

Inventor(s): Yoichiro Sako, et al.

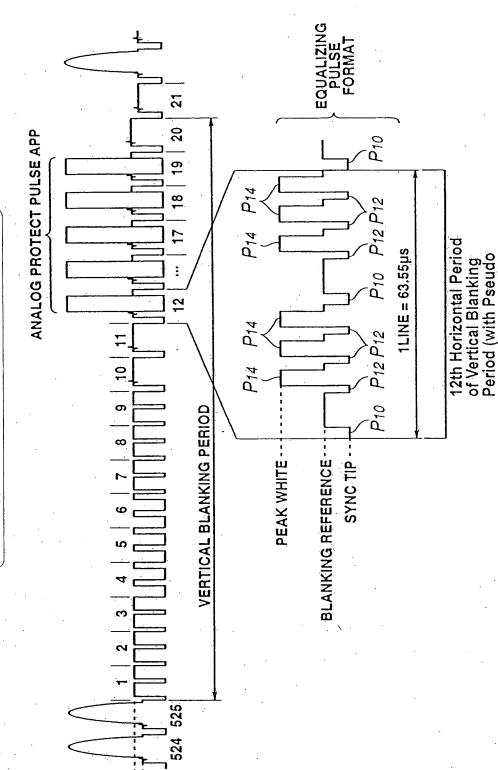


FIG. 10

Sync Pulses, White Peak Pulses and Equalizing Pulses)

D. OLT NTSC. A. OUT ANOLOG VIDEO IN . 83 6 DIGITAL INTERFACE NTSC ENCODER ANALOG PROTECTOR PULSE DETECTOR 25) AGC 26, 82 83 ≚ 32、 SCRAMBLER 24) DIGITAL ă 8 PROTECT PULSE GENERATOR 83 PROTECT SIGNAL GENERATOR 33 MPEG2 DECODER ANALOG RECORDING CIRCUIT 8 DESCRAMBLER Σ SECTOR RESOLVER COPYING MANAGEMENT INFORMATION DISCRIMINATOR 9 ANALOG REPRODCING CIRCUIT DATA SECTOR HEADER READER ANOLOG VIDEO OUT TOC READER ERROR CORRECTOR 67 5 ė စွ 89 8 **→** DEMODULATOR 7 SERVO FIG. 11 쮸 ප)

Transmitting Method and Apparatus and

Signal Recording Medium

Yoichiro Sako, et al.

Inventor(s):

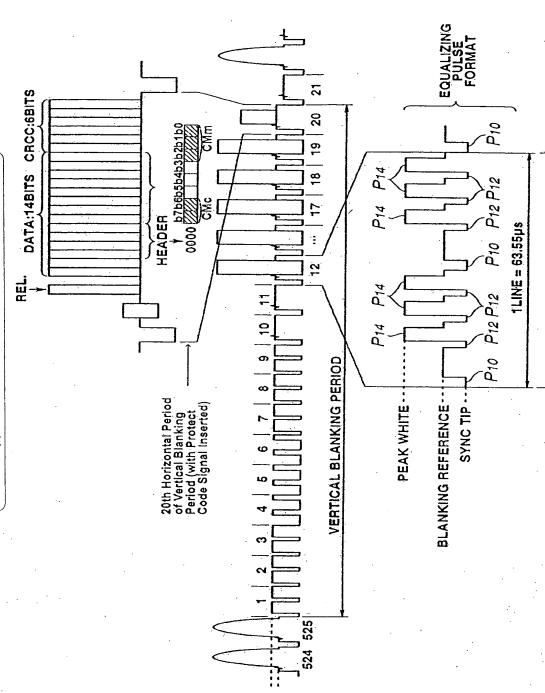
Signal Reproducing/Recording/

09/610,783

Serial No.:

Transmitting Method and Apparatus and Signal Reproducing/Recording/ Signal Recording Medium 09/610,783 Serial No.: Title:

Inventor(s): Yoichiro Sako, et al.

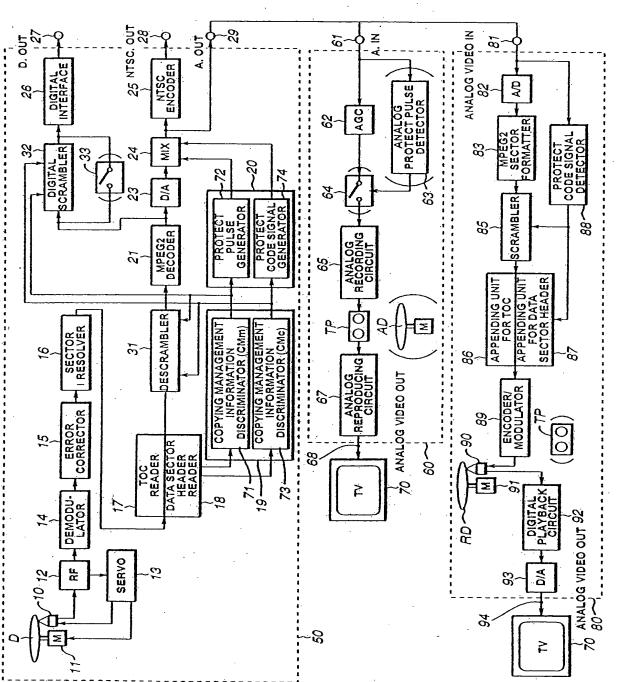


20th Horizontal Period of Vertical Blanking Period (with Pseudo Sync Pulses, White Peak Pulses and Equalizing Pulses)

Transmitting Method and Apparatus and Signal Reproducing/Recording/ Serial No.: 09/610,783 Title: Signal Rep

Inventor(s): Yoichiro Sako, et al.

Signal Recording Medium



Serial No.: 09/610,783

Title: Signal Reproducing/Recording/

Transmitting Method and Apparatus and

Signal Recording Medium

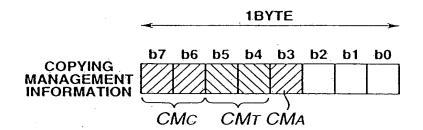


FIG.14

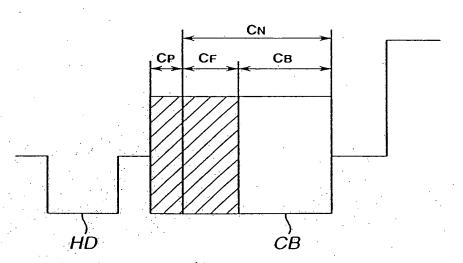


FIG.15

Serial No.:

Title:

Signal Reproducing/Recording/
Transmitting Method and Apparatus and

Signal Recording Medium

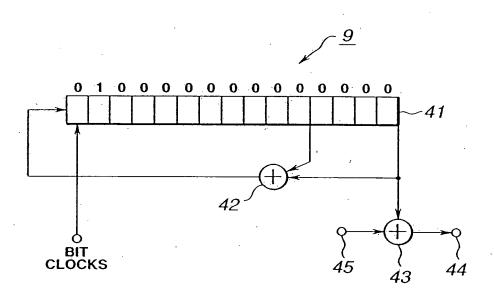


FIG.16

Serial No.:

Title:

09/610,783

Inventor(s): Yoichiro Sako, et al.

Signal Reproducing/Recording/

Signal Recording Medium

Transmitting Method and Apparatus and

FIG.17

Serial No.: 09/610,783 Title: Signal Repr

Signal Reproducing/Recording/ Transmitting Method and Apparatus and Signal Recording Medium

Inventor(s): Yoichiro Sako, et al.

b0 (LSB) **b**24 LAYER NUMBER **b**25 **b**26 AREA TYPE SECTOR NUMBER **b27** SPARE **b**28 TRACKING REFLEC**b**29 b24 b23 **p**30 SECTOR INFORMATION **b**31 (MSB) b31

FIG. 18

